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Correspondence concerning subscription, back issues, publication, etc. should be  
addressed to the editor: Hisham K. El-Hennawy

Postal address: 41, El-Manteqa El-Rabia St., Heliopolis, Cairo 11341, Egypt.

E-mail: [el\\_hennawy@hotmail.com](mailto:el_hennawy@hotmail.com)

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## **A contribution to the gnaphosid spider fauna of Turkey (Araneae: Gnaphosidae)**

Osman Seyyar<sup>1</sup>, Hakan Demir<sup>2</sup> and Aydın Topçu<sup>2</sup>

<sup>1</sup> Erciyes University, Science and Art Faculty, Department of Biology, TR-38039 Kayseri

<sup>2</sup> Niğde University, Science and Art Faculty, Department of Biology, TR-51200 Niğde, Turkey

Corresponding e-mail: [osmanseyyar@hotmail.com](mailto:osmanseyyar@hotmail.com)

### **Abstract**

Two species of family Gnaphosidae are reported from Turkey for the first time. They are *Gnaphosa montana* (L. Koch, 1866) and *Zelotes solstitialis* Levy, 1998. The morphological characters and geographical distribution of the two species are presented.

**Keywords:** Spiders, Araneae, Gnaphosidae, New records, Turkey.

### **Introduction**

Gnaphosid spiders are generally characterized by having barrel-shaped anterior spinnerets that are one spinneret diameter apart. In Gnaphosidae, 1975 species belonging to 116 genera have been described all over the world (Platnick, 2006). This family is the most abundant and one of the most diverse of all spider families in Turkey. Until now, 87 gnaphosid species belonging to 20 genera were recorded from Turkey (Ovtsharenko *et al.*, 1992, Topçu *et al.*, 2005, 2006, Özdemir *et al.*, 2006, Seyyar *et al.*, 2006, Varol *et al.*, 2006).

In this study, we report two ground spider species as new records from Turkey. For each species, the collected material, localities (with GPS co-ordinates), genitalia drawings and general distribution are given.

### **Material and Methods**

In this study, most of specimens were obtained from pitfall traps and under stones in central parts of Turkey. Examined specimens are deposited in the Arachnology Museum of Niğde University (NUAM). The specimens were preserved in 70% ethanol. The identification and drawings were made by means of a SZX9 Olympus stereomicroscope with camera lucida. For the identification of the species, the works of Chatzaki *et al.* (2003), Levy (1998), Ovtsharenko *et al.* (1992) and Heimer & Nentwig (1991) were consulted. Length of leg includes coxa and trochanter. All measurements are in millimetres.

## Results

### *Gnaphosa montana* (L. Koch, 1866)

**Material examined:** TURKEY: Niğde province, İtulumaz Mountain (1400-1920 m.) (37°57'N, 34°42'E), 22.VII.2004. Depository: NUAM GNA 51/0117-120 (2♂♂, 4♀♀). Collected from under stones.

**Male:** Body length 9.4-10.2; carapace length 3.2-4.1, width 2.2-2.8; length of legs: I 7.1-8.7, II 6.2-6.9, III 5.9-6.2, IV 8-9.4; leg I: coxa 0.75-0.9; trochanter 0.3-0.5; femur 1.8-2.1; patella 0.75-0.9; tibia 1.5-1.9; metatarsus 1.1-1.3; tarsus 0.9-1.1.

**Female:** Body length 12.3-14.8; carapace length 5.3-6.4, width 3.7-4.8; length of legs: I 15.15-15.5, II 12.15-12.35, III 11.35-11.7, IV 16.6-17; leg I: coxa 1.8-1.95; trochanter 0.8-0.95; femur 3.2-3.6; patella 1.75-1.85; tibia 2.8-2.95; metatarsus 2.15-2.3; tarsus 1.92-2.

**Description:** Carapace reddish-brown. Distal leg segments more brightly reddish, eye area and chelicerae darker. Sternum elliptic. Abdomen with grey hairs. Epigynum and male palp (Fig. 1) resemble the description of Ovtsharenko *et al.* (1992).

**World distribution:** Palearctic (Platnick, 2006).

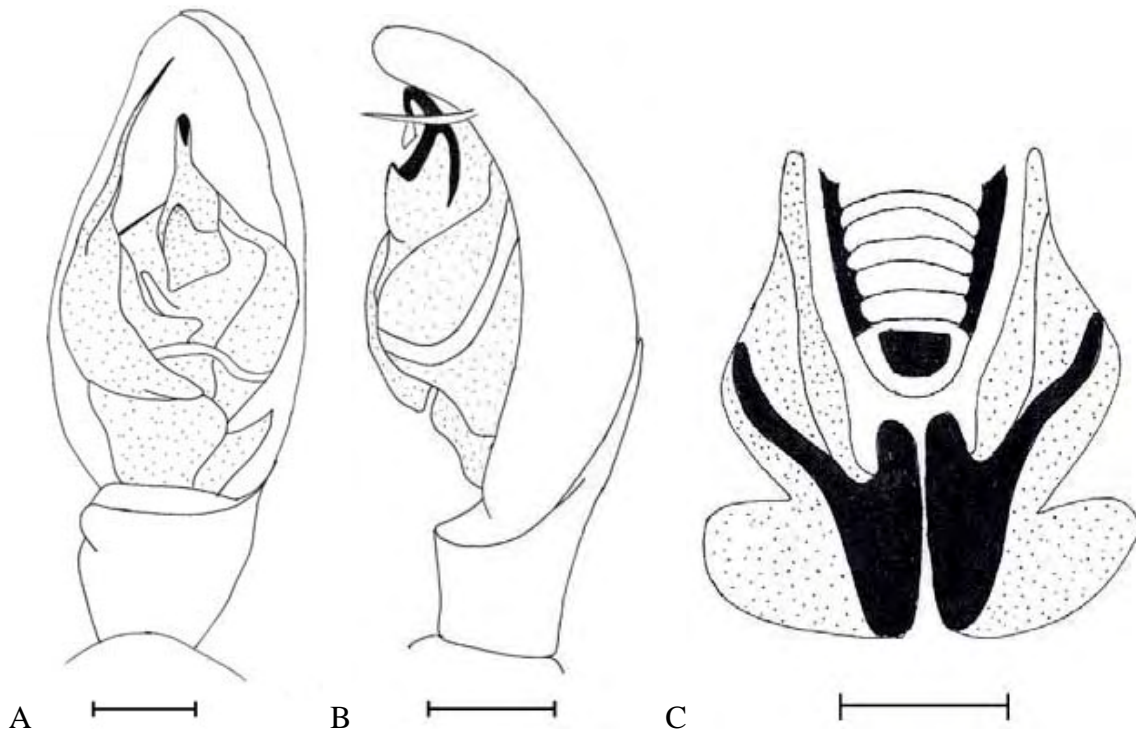


Fig. 1. *Gnaphosa montana* (L. Koch, 1866). A-B. Male palp. A. ventral view. B. retrolateral view. C. Epigynum, ventral view. Scale line = 0.2 mm.

### *Zelotes solstitialis* Levy, 1998

**Material examined:** TURKEY: Niğde province, (37°58'N, 34°40'E), 03.VII.2004. Depository: NUAM GNA 51/056-58 (3♂♂). Collected by pitfall traps.

**Male:** Body length 7-7.8; carapace length 3-3.5, width 1.9-2.3; clypeus length 0.1-0.15; length of legs: I 11.2-12.1, II 9.8-10.4, III 9-9.6, IV 12.8-13.8; leg I: coxa 1.2-1.4, trochanter 0.3-0.5, femur 2.4-2.7, patella 1.3-1.5, tibia 2-2.3, metatarsus 1.7-2, tarsus 1.5-1.7.

**Description:** Carapace dark brown to black, flattened or slightly elevated at middle with short distinct fovea. Posterior median eyes the largest. Chelicerae with 4-5 promarginal teeth. Opisthosoma greenish brown, spindle-shaped, anterior spinnerets longest. Sternum oval. Labium longer than wide with dark edges. Legs light brown. Male palp (Fig. 2) resembles the description of Levy (1998) and Chatzaki *et al.* (2003).

**World distribution:** Crete, Israel (Platnick, 2006).

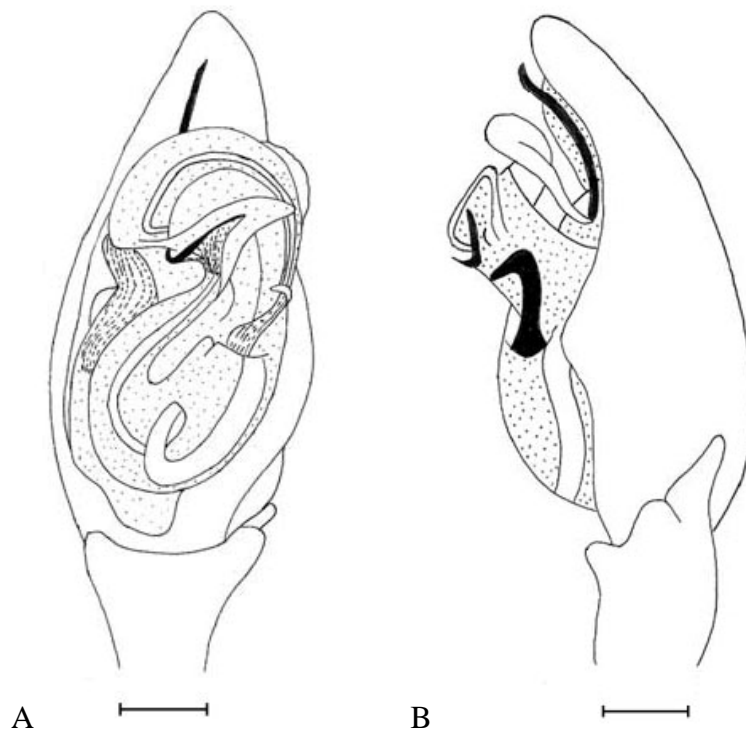


Fig. 2. *Zelotes solstitialis* Levy, 1998. A-B. Male palp. A. ventral view. B. retrolateral view. Scale line = 0.2 mm.

### Discussion

*Zelotes solstitialis* is close to *Z. caucasius* (L. Koch, 1866), but due to the fact that: 1. the male of *Z. solstitialis* has no prolateral tegular apophysis, 2. the gathering point of cymbium and embolus is wide, and 3. the presence of a ventral lobe of tibial apophysis, it can be distinguished from *Z. caucasius*. Our *Z. solstitialis* samples are similar to the samples of Crete and Israel but their bodies are bigger. The recording of this species from Turkey widens its distribution. The morphometric measurements and other characteristic features of our *G. montana* samples are not different from European specimens.

### Acknowledgment

We are very grateful to Dr. Maria Chatzaki (Crete) for her advice and valuable comment.

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**Mitigating scorpion-sting syndrome in the Middle East:  
understanding the substratum preferences of *Androctonus  
crassicauda* (Olivier, 1807) (Scorpiones: Buthidae)**

Alexander K. Stewart  
Department of Geology, University of Cincinnati,  
Cincinnati, Ohio 45221-0013, USA  
E-mail: [seismite@hotmail.com](mailto:seismite@hotmail.com)

**Abstract**

Hundreds of medical and toxicological reports have been published concerning the venom of medically important scorpion genera (e.g. *Androctonus* and *Leiurus*) and the treatment of their stings. Two particular studies (Radmanesh, 1998; Al-Sadoon & Jarrar, 2003) reported over 100,000 scorpion-sting cases in Iran and Saudi Arabia in a five-year period. This “scorpion-sting syndrome” is significant and counter-productive for human well-being and economic growth. Therefore, a better understanding of scorpion habits and preferences allows the design of mitigating strategies, which should reduce envenomation in underdeveloped/developing communities in the Middle East. A substratum-based study was devised to interpret the refuge and roaming preferences of *Androctonus crassicauda* (Olivier, 1807). Observations (n = 570) of 15 *A. crassicauda* specimens were recorded in north-central Iraq during the summer of 2004. Each scorpion was given a choice between either a sandy or rubble-like substratum, which mimicked those found in Iraqi communities. Two main results were obtained: *A. crassicauda* is (1) ~2.5 times more likely to choose already-made burrows in the sandy substratum, and (2) ~2.0 times more likely to roam atop sandy substratum than atop open-framework rubble. Consequently, four strategies are suggested to militate against infestation in households and community common areas.

**Keywords:** Scorpiones, Buthidae, *Androctonus crassicauda*, sting, Middle East.

## Introduction

Scorpion-sting syndrome is a threat to human welfare and productivity in many countries (see Hutt & Houghton, 1998 for review); for example, Mexico reports over 200,000 cases per annum (Lourenço & Cuellar, 1995; Jimenez-Ferrer *et al.*, 2005) and other countries report from a couple hundred cases per annum to a few thousand (Table 1). In the Middle East (e.g., Saudi Arabia and Iran) there are two studies presenting over 100,000 sting cases, which were reported during a five-year period (Radmanesh, 1998; Al-Sadoon & Jarrar, 2003; Table 1). Presumably, most of these scorpion-sting cases occur because of ignorance of scorpion habits and preferences by the hard-working people who must cohabitate with them.

Table 1: Representative list of scorpion-sting cases from 12 countries around the world. Cases are based on published reports; reported numbers are minima.

List of Scorpion-sting Syndrome reports					
Country	Occurrence	Reference	Country	Occurrence	Reference
Algeria	1,300	Balozat, 1964	Mexico	>200,000	Dehesa-Davila <i>et al.</i> , 1994
Australia	>45	Isbister, 2004	Morocco	40,000	Ghalim <i>et al.</i> , 2000
Colombia	>130	Otero <i>et al.</i> , 2004	Saudi Arabia	72,168	Al-Sadoon & Jarrar, 2003
India	38	Bhattacharyya <i>et al.</i> , 1992	Trinidad	175	Waterman, 1950
Iran	>36,463	Radmanesh, 1998	Tunisia	>275	Goyffon <i>et al.</i> , 1982
Libya	900*	WHO, 1981	Turkey	>152	Ozkan & Kat, 2005

\*per 100,000 people.

One of the Middle East's more problematic genera, *Androctonus* spp., are medically important (Ismail *et al.*, 1994) and a common pest. Al-Sadoon & Jarrar (2003) reported that about half of the scorpion-sting cases in Saudi Arabia, were from a "black scorpion" (likely *Androctonus* spp.). Because of *Androctonus* spp. abundance and toxicity, it is crucial to understand their habits, in order to mitigate the danger they pose to communities. In recent years, there has been a push toward understanding the toxicology of scorpion venom and the treatment of scorpion-sting syndrome by means of antivenin (serotherapy) and/or local herbal/plant remedies (Ismail, 1995 & Hutt & Houghton, 1998, respectively for reviews). Although these studies are crucial to patient care, there is, however, another approach to this problem, which will prevent scorpion-sting syndrome – behavioural studies. By better understanding a scorpion's habits (e.g., it's substratum preferences – where do they prefer to hide and roam?) we can minimize/reduce sting cases; thereby, reducing strain on community healthcare systems. If we know where scorpions hide and roam we can eliminate them and/or avoid them.



In order to implement either/both of these techniques, a complimentary practice is required – community education. Education can decrease scorpion-sting syndrome by means of a three-step program (Stewart, 2006b): 1) Educate communities about scorpion-sting syndrome and its threat to their welfare and productivity; 2) Educate about *Androctonus* spp. (and other harmful species) habits and preferences; and 3) Equip them with appropriate equipment to locate and eradicate scorpions (i.e. ultraviolet light source).



Fig. 1. Photograph of *Androctonus crassicauda* (Olivier, 1807). Circled section is shown in schematic detail in Fig. 6. Scale bar is in centimetres.

## Methods

**Species studied.** *Androctonus crassicauda* (Olivier, 1807) (Buthidae) is a medically important species (i.v. LD<sub>50</sub> in mice of 0.32±0.02 mg/kg; Ismail *et al.*, 1994), which inhabits the Palaearctic region, primarily the Middle East (with congenics also found in North Africa; Fet & Lowe, 2000). Adults of this species vary in colour from light brown to reddish black and can reach lengths greater than 10 centimetres (Fig. 1). Described as a generalist desert species (Fet *et al.*, 1998), it has been noted as an anthropotolerant (Crucitti & Cicuzza, 2001) and is commonly found “in the ruins of old, neglected buildings. ...” (Birula, 1917; quoted from a Nakhichevan native in modern Azerbaijan).



Fig. 2. Map of Iraq showing study location (~50 kilometres north of Samarra) marked by red circle.

**Experiment.** In northern Iraq (Fig. 2) during the summer of 2004, 15 adult *A. crassicauda* specimens were located by a 5-LED shortwave ultraviolet light (385nm, 4.0mW) during evening Nautical and Astronomical Twilights (i.e. when the sun was greater than 12 degrees below the horizon) in and around derelict structures. Specimens were found sitting in crevices or pre-made “burrows” at the wall-substratum interface and roaming within one metre of outside walls or resting vertically on the wall face (not greater than 0.5 metre up). Pre-made “burrows” appeared to be interstices or the opportunistic use of removed-animal refuges. The substratum was densely packed silts and sands with areas adjacent walls being broken and fissured. Specimens were of undetermined age and varied from 25 to 40 millimetres in length (pro and mesosoma; Fig. 1). Each scorpion was placed into a terrarium (50cm x 20cm x 15cm), which

comprised 50% sand-based substratum and 50% rubble-based (open-framework) substratum. Each section (sand or rubble) was given one “pre-made” burrow (to replicate a removed-animal refuge) with the rubble section also having natural interstices, which the scorpion could also use as a refuge. Atmospheric and substratum environmental conditions were also measured by means of thermometers (shielded atmospheric and substratum) and a hygrometer (Table 2).

Table 2: Environmental data showing maxima, minima and means for atmospheric temperature and humidity and burrow and substratum temperatures.

Temperatures and Humidity (°C)					
	Ambient Air	Sandy substratum	Rubbly substratum	Burrow	Humidity (%)
Mean	31.9	31.8	32.3	31.3	18.0
Max	40.6	37.6	38.9	36.6	30.0
Min	25.0	26.2	26.6	26.0	8.0

Observations of scorpion activity were completed by means of low-intensity red light (when necessary) at 0730, 1630, 2130 and 2330 hrs. During the morning and afternoon times (0730 and 1630hrs, respectively) there were zero observations of active scorpions (active = ambulation or motionless state with body raised above substratum with tarsi and pectines touching substratum; in or out of burrow; Stewart, 2006a). Activity levels increased to a notable level during the 2130 and 2330 hour time frames. One observation was made per specimen per time period (e.g., 2130hrs) with four possible options (Table 3): The scorpion was either 1) Active in sandy substratum pre-made burrow; 2) Active atop sandy substratum; 3) Active in rubble substratum interstice or pre-made burrow or 4) Active atop rubble substratum. Subsequent to any specimen’s experimental use, it was released back to its captured location.

## Results

In northern Iraq, 570 observations were recorded during the summer of 2004 regarding *A. crassicauda*’s substratum preferences. The division of observations into either in-burrow or atop substratum was entirely related to scorpion’s choice of active location. Of these 570 substratum observations, 386 were in-burrow (henceforth considered burrow preference) and the remainder (184) were atop substratum (henceforth considered roaming preference) (Table 3). Student’s t-tests were performed to determine difference significance between sand- and rubble-based substrata for both burrow and roaming preferences. For burrow preference, pre-made burrows in sandy substratum were chosen 268 times; whereas, the rubble-based burrows were selected 118 times. Burrow data suggest that *A. crassicauda* is ~2.3 times more likely to use pre-made burrows in a sandy substratum ( $p = <0.05$ ). For substratum roaming preferences, being active on the sand was observed 122 times versus 62 times on the rubble. This relationship suggests that *A. crassicauda* is ~2.0 times more likely to be out and active atop a sandy substratum ( $p = <0.05$ ).

Table 3: Substratum preference observations showing the 15 specimens (Greek name) and their observed locations during the 2130 and 2330 observational periods. One observation (in burrow or on surface) was possible for each period (2130 and 2330); two possible per day.

Specimen	Substratum preference observations			
	Burrow Preference		Roaming Preference	
	In sandy substratum	In rubbly substratum	On sandy substratum	On rubbly substratum
<i>omicron</i>	26	0	15	1
<i>pi</i>	23	1	7	1
<i>ro</i>	22	9	5	3
<i>sigma</i>	12	8	9	2
<i>upsilon</i>	33	11	8	3
<i>phi</i>	15	29	0	0
<i>chi</i>	19	10	3	2
<i>psi</i>	19	0	13	10
<i>omega</i>	22	8	11	8
<i>beta2</i>	5	6	7	10
<i>gamma2</i>	17	9	9	6
<i>delta2</i>	13	5	20	8
<i>epsilon2</i>	19	13	8	5
<i>zeta2</i>	15	6	3	2
<i>eta2</i>	8	3	4	1
<b>SUM</b>	<b>268</b>	<b>118</b>	<b>122</b>	<b>62</b>
<i>Preference of Sandy over Rubbly Substratum:</i>	<b>2.3 times</b> ( $\rho = <0.05$ )		<b>2.0 times</b> ( $\rho = <0.05$ )	

## Discussion

There are a few plausible reasons for the variation between the sandy and rubbly substratum choices made by the scorpions; for example, environmental factors or mechanical and/or chemical sensory cues. Regarding environmental factors, a scorpion's best defence against changing environment is to use a more climatically equable burrow (Hadley, 1974). Although *A. crassicauda* continually used burrows during this experiment, the burrows' environmental conditions were insignificantly different ( $\sim 1^\circ\text{C}$  difference for interstitial air and substrata;  $\rho = >0.05$ ; Table 2). The most likely reason,

therefore, may be related to the scorpion's ability to recognize and interpret mechano/chemosensory signals, which are pertinent to its survivability (e.g. locating prey, relocating its burrow, locating mates, etc.).



Fig. 3. Ventral view of *A. crassicauda* showing pectines (in pink circle).  
Scale bar is 1 centimeter.

The largest receptors of mechanical and chemical information for the scorpion are its pectines (Fig. 3), which are ventromedial appendages specialized for detection of substances (e.g. odours and tastes) and texture on/of the substratum (Gaffin & Brownell, 1997). This sensory information, involving odours, tastes and texture, may assist the scorpion in a variety of ways: navigation, location of potential mates, tactile use for spermatophore placement, prey capture and predatory avoidance (Gaffin & Brownell, 1997). In order to maximize the efficacy of pectines, ambulation on an uninterrupted and predictable substratum is optimal (Fig. 4). The open-framework, rubbly substratum, however, may not be conducive for pecten sweeping/tapping with the substratum during its ambulation (Fig. 5). In order for a scorpion to breach obstacle groupings (e.g. rubble



or rock piles) similar to and slightly greater than its body length, it must sacrifice pecten contact with the substratum. The “free-floating” pectines, therefore, will not be able to record necessary information about the scorpion’s position or other cues (Fig. 5). As an adaptive technique, it appears that *A. crassicauda* opts for an uninterrupted substratum; thereby, increasing its likelihood of returning to its burrow, locating prey and/or receiving other mechano/chemosensory uses.

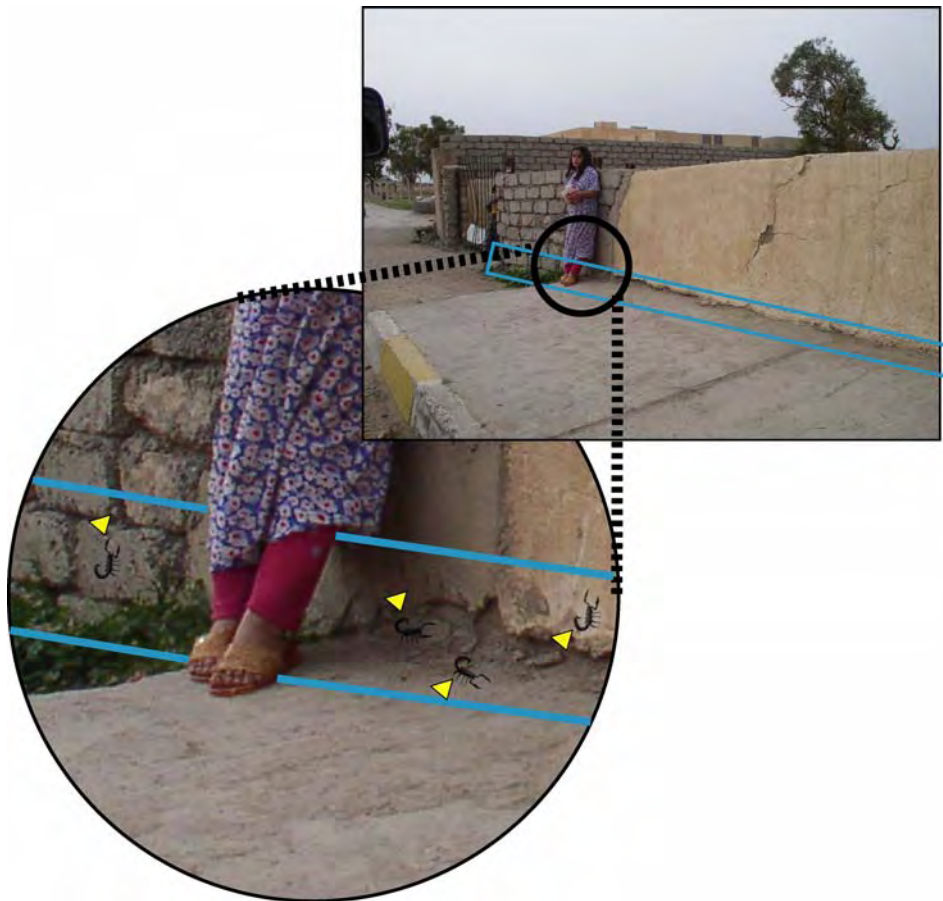


Fig. 4. Photograph of young Iraqi girl standing near a wall showing the main *A. crassicauda* “burrow” and roaming locations. Representative scorpions (also noted by yellow triangles) show the most likely places to find *A. crassicauda*: concrete block interstices and cracked/fissured wall bases, both of which are ubiquitous in underdeveloped/developing communities in the Middle East. Blue blocked area shows probable roaming location.

Another sensory receptor providing location information to the scorpion’s brain are their slit sensillae, which are vibration-sensitive portions of their basitarsi near the tarsal joint on each of eight legs (Fig. 6). Slit sensillae can sense vibrational stimuli and are mostly responsive to small amplitude accelerations of the tarsi resting on the substratum (Brownell & van Hemmen, 2001). Together, all eight of these accelerometers make an array capable of determining direction and distance to a set of surface waves

(esp., Raleigh Waves). Because of the rapidity of wave propagation through solids (i.e., rocks), scorpions can only detect and interpret Raleigh Waves travelling more slowly through uncompacted or poorly compacted/porous solids (e.g. sand, concrete, cinder blocks or stucco). Because of the decreased velocities in these substrata (approximately 40-120 metres sec<sup>-1</sup> for sand), Brownell (1977) suggested that a scorpion can grasp prey in one movement (<20 centimetres distant) and is able to detect and orient toward prey up to 50 centimetres distant (corroborated by Stewart (2006a), personal observations of *A. crassicauda*). Two aspects of surface wave propagation may affect *A. crassicauda* preference for substratum. In a non-sandy (e.g. rock-based) substratum, surface wave velocities are too fast to be resolved by the array of slit sensillae, which are too closely spaced. Because Brownell (1977, 2001) “resolved” a scorpion’s ability to detect surface waves to less than 50 centimetres, this may be another reason for the reduction in use of the rubbly substratum. While a scorpion is ambulating a rubbly rock pile, the area of any piece of rubble may be too small to allow both a warning of predators and prey from a reaction-safe distance.

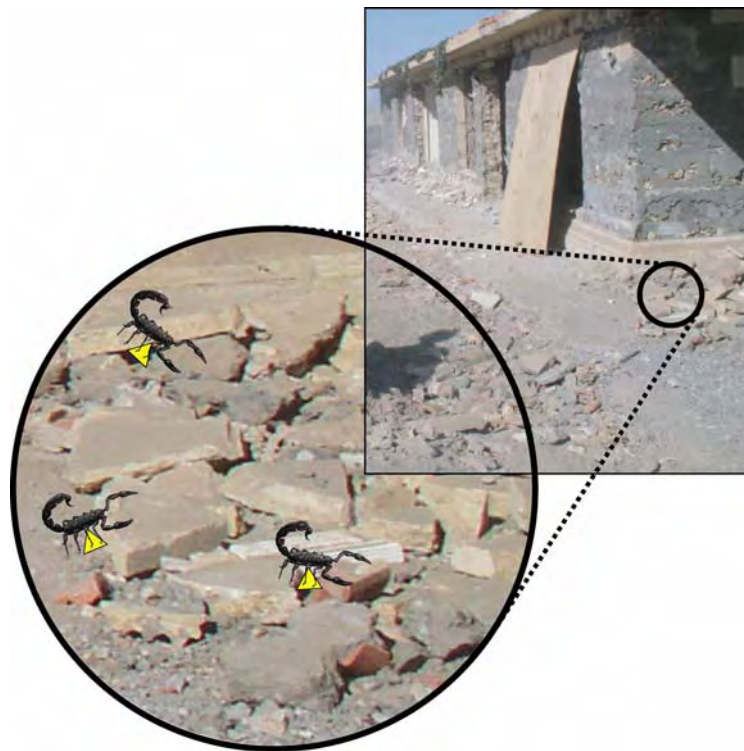


Fig. 5. Unlikely location for *A. crassicauda*. Photograph of a deteriorating building in Iraq; indicative of living conditions in underdeveloped/developing communities. Note the significant amount of rubble accumulating at the base of the building. Circular blow-up shows hypothetical situations where a scorpion is breaching rubble. Note that in certain situations (noted by the hypothetical scorpions) the ventromedial section (pectines; noted by yellow triangles) will be “free-floating” and unable to record information about the substratum.

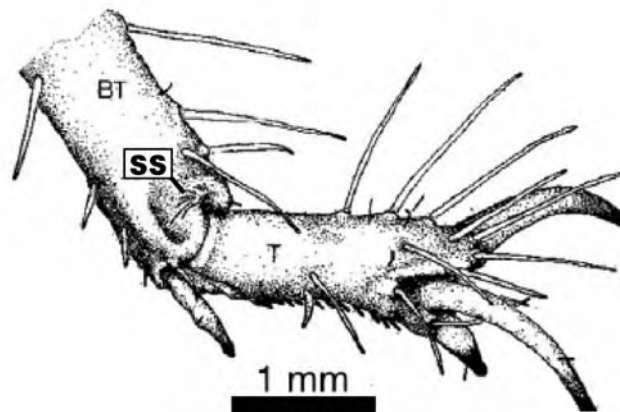


Fig. 6. Schematic diagram of the tarsus (T) showing location of slit sensilla (SS) and basitarsus (BT) (modified from Brownell & van Hemmen, 2001).

Regardless of sensory cue (mechanical or chemical) it appears that *A. crassicauda* is specially adapted toward uninterrupted, continuous substrata; such as, sandy, silty substrata (natural) or cinder blocks, concrete and stucco substrata (anthropogenic). For chemical cues, these substrata ensure a continuous transmission of sensory cues via the pectines. These substrata, moreover, have slower/detectable Raleigh Wave velocities, which allow the slit sensilla to interpret distal prey/predator location information. Lastly, although the anthropogenic substrata are theoretically detectable by the scorpion's slit sensillae, it appears that a reaction-safe distance is imperative to scorpion substratum choice.

## Conclusions

Understanding a scorpion's habits, associated with its sensory capabilities (i.e. mechano/chemosensory), can help mitigate "scorpion-sting syndrome" in the Middle East, North Africa and elsewhere by reducing human-scorpion contact. Eradication and/or avoidance of dangerous scorpions' stings will increase human welfare and productivity, which in turn, will decrease community/national monetary support for hospital care of scorpion stings. This is not to suggest that medical and toxicological reports should become useless, for there will always be scorpion stings. It does, however, allow medical professionals to investigate other community/national health issues and concerns. In order to fully affect the mitigation of scorpion-sting syndrome by *A. crassicauda*, the following mitigating strategies are presented to national and community education systems:

1. Ensure all wall-floor conjoinments are sealed
2. Fill cracks/interstices at concrete/sand interfaces and repair deteriorated cinder-block-wall joints
3. Reduce refuges by removing crumbled stucco/wall-covering piling at wall bases, rubbish and loose materials
4. Use an ultraviolet light to locate scorpions in small crevices/cracks (primarily in a sandy substratum) in building foundation/walls.



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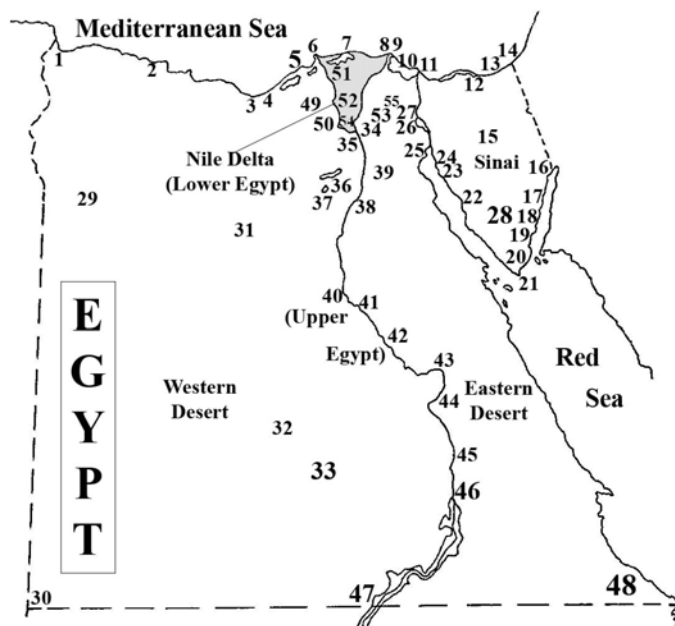
## A list of Egyptian spiders (revised in 2006)

Hisham K. El-Hennawy  
41 El-Manteqa El-Rabia St., Heliopolis, Cairo 11341, Egypt  
E-mail: [el\\_hennawy@hotmail.com](mailto:el_hennawy@hotmail.com)

This list includes names of spider species, recorded from Egypt, with their distribution localities. It is preceded by a table which includes names of recorded spider families (40) followed by number of recorded genera (193) and species (385) within parentheses. A few species maybe considered *nomina dubia* and some records are not certain. The verification and corrigenda will be available in a detailed work revising different spider families of Egypt. This work is a trial to bring the author's "Annotated checklist of Egyptian spider species" of 1990 and "A list of Egyptian spiders (revised in 2002)" to be up to date. The recorded localities are plotted on a map. [Abbreviations used: ? = unknown locality (only Egypt), \* = Endemic species, Prot. = Protectorate]

**Keywords:** Spiders, Araneae, Egypt.

Order Araneida (Araneae, Aranei)					
Suborder Opisthothelae					
Infraorder Mygalomorphae					
Nemesiidae	1 (1)	Theraphosidae		1 (3)	
Infraorder Araneomorphae					
Agelenidae	5 (7)	Liocranidae	1 (2)	Scytodidae	1 (5)
Araneidae	15 (22)	Lycosidae	20 (44)	Segestriidae	2 (2)
Cithaeronidae	1 (1)	Mimetidae	1 (1)	Selenopidae	1 (1)
Clubionidae	1 (1)	Miturgidae	2 (9)	Sicariidae	1 (1)
Corinnidae	1 (1)	Oecobiidae	2 (7)	Sparassidae	6 (13)
Ctenidae	1 (1)	Oonopidae	4 (5)	Synaphridae	1 (1)
Dictynidae	5 (6)	Oxyopidae	2 (6)	Tetragnathidae	2 (5)
Dysderidae	1 (7)	Palpimanidae	1 (3)	Theridiidae	10 (24)
Eresidae	3 (6)	Philodromidae	3 (18)	Thomisidae	10 (25)
Filistatidae	2 (3)	Pholcidae	5 (5)	Titanoecidae	2 (2)
Gnaphosidae	21 (48)	Pisauridae	4 (4)	Uloboridae	1 (2)
Hersiliidae	2 (2)	Prodidomidae	3 (3)	Zodariidae	5 (8)
Linyphiidae	8 (8)	Salticidae	35 (72)		
TOTAL : 40 Families, 193 genera, 385 species					



### Map of Egypt.

1-55. Recording localities.

1- El-Sallum. 2- Marsa Matruh. 3- El-Omayed Prot. 4- El-Hammam. 5- Alexandria, Edko, Mariout. 6- Rosetta. 7- El-Burullus Prot. 8- Ras El-Barr. 9- Damietta. 10- El-Manzalah (lake). 11- Port Said. 12- El-Zaranik Prot. 13- El-Arish. 14- Rafah. 15- Mid Sinai. 16- Taba. 17- Abu Galoum Prot. 18- Dahab and Wadi Yah'med. 19- Nabq Prot. 20- Sharm El-Sheikh. 21- Ras Mohammed Prot. 22- En Higiya (north east of Abu Zneima). 23- Ras Sedr. 24- Ain-Musa. 25- Suez. 26- Fayed. 27- Ismailia. 28- St. Catherine,

Mount Serbal, Wadi Esla. 29- Siwa Oases. 30- El-Uwaynat. 31- El-Baharia Oases, El-Bawitti. 32- Dakhla Oases. 33- New Valley. 34- Cairo (Heliopolis, Zenhum and Helwan), Wadi Degla (El-Maadi). 35- Giza, Pyramids, Saqqarah, Dahshur. 36- El-Fayum, Kom Osheem. 37- Wadi El-Raiyan. 38- Beni Suef. 39- Wadi Rishrash. 40- Manfalut. 41- Assiut. 42- Sohag. 43- Qena. 44- Luxor. 45- Gebel Silsilis. 46- Aswan, Elephantine and Philoe island; Fatira (Kom Ombo). 47- Wadi-Halfa, Nubia. 48- El-Shalateen, Bir El-Gahliya, Wadi De'eeb. 49- Wadi Natron. 50- El-Tahrir Province. 51- Kafr El-Sheikh. 52- El-Menoufeia, Shebin El-Kom. 53- El-Aasher-Min-Ramadan City (65 km east of Cairo). 54- Nile Barrage, Qalyubia. 55- Salahyeh.

### Infraorder Mygalomorphae

Family Nemesiidae Simon, 1892

*Nemesia cellicola* Savigny, 1825 --- Alexandria

Family Theraphosidae Thorell, 1870

*Chaetopelma gracile* (Ausserer, 1871) --- Alexandria, El-Fayum, Upper Egypt

*Chaetopelma olivaceum* (C.L.Koch, 1841) --- Cairo

*Chaetopelma shabati* Hassan, 1950 --- Cairo, El-Fayum \*

### Infraorder Araneomorphae

Family Agelenidae C.L.Koch, 1837

*Benoitia lepida* (O.P.-Cambridge, 1876) --- Abu Galoum, El-Omayed, El-Zaranik, New Valley, Siwa Oases, Upper Egypt, Wadi El-Raiyan, Wadi Natron

*Benoitia timida* (Savigny, 1825) --- Rosetta

*Lycosoides coarctata* (Dufour, 1831) --- Alexandria, Nile Barrage

*Malthonica pagana* (C.L.Koch, 1840) --- Cairo

*Tegenaria domestica* (Clerck, 1757) --- Rosetta

*Tegenaria parietina* (Fourcroy, 1785) --- Alexandria

*Textrix caudata* L.Koch, 1872 --- ?

Family Araneidae Simon, 1895

*Agalenatea redii* (Scopoli, 1763) --- southern Sinai

*Araneus circe* (Savigny, 1825) --- Alexandria

*Argiope bruennichi* (Scopoli, 1772) --- ?

*Argiope lobata* (Pallas, 1772) --- Alexandria, Cairo, El-Burullus, El-Shalateen, El-Zaranik, Nabq, Ras Mohammed, St. Catherine, Wadi El-Raiyan, Wadi De'eeb

*Argiope sector* (Forskål, 1775) --- Nubia, Port Said, Siwa Oasis, Upper Egypt, Wadi Natron

*Argiope trifasciata* (Forskål, 1775) --- Alexandria, Cairo, El-Burullus, El-Tahrir Province, Siwa Oasis, Wadi El-Raiyan, Wadi Natron

*Cyclosa deserticola* Levy, 1998 --- ?

*Cyclosa insulana* (Costa, 1834) --- El-Burullus (?), Siwa Oasis, Wadi Natron

*Cyrtophora citricola* (Forskål, 1775) --- Cairo, Abu Galoum, Nabq, Ras Mohammed, Siwa Oasis, Wadi El-Raiyan, Wadi Natron

*Gasteracantha sanguinolenta rueppelli* (Strand, 1916) --- ? \*

*Gea nilotica* Simon, 1906 --- ? \*

*Gibbaranea bituberculata* (Walckenaer, 1802) --- Alexandria, Cairo

*Hypsosinga albovittata* (Westring, 1851) --- Alexandria

*Larinia acuticauda* Simon, 1906 --- Luxor, Siwa Oasis

*Larinia chloris* (Savigny, 1825) --- Siwa Oasis, Suez, Upper Egypt

*Larinioides cornutus* (Clerck, 1757) --- Rosetta

*Larinioides suspicax* (O.P.-Cambridge, 1876) --- Alexandria, Damietta, El-Fayum, Rosetta, Siwa Oasis, Wadi Natron

*Neoscona subfusca* (C.L.Koch, 1837) --- Alexandria, Siwa Oasis

*Nuctenea umbratica* (Clerck, 1757) --- Damietta

*Singa lucina* (Savigny, 1825) --- Alexandria, Rosetta

*Singa semiatra* L.Koch, 1867 --- ?

*Siwa atomaria* (O.P.-Cambridge, 1876) --- Aswan, Cairo, Siwa Oasis, Upper Egypt

Family Cithaeronidae Simon, 1893

*Cithaeron praedonius* O.P.-Cambridge, 1872 --- Alexandria

Family Clubionidae Wagner, 1887

*Clubiona listeri* Audouin, 1825 --- ? \*

Family Corinnidae Karsch, 1880

*Castianeira antinorii* (Pavesi, 1880) --- Cairo (Giza), Siwa Oasis

Family Ctenidae Keyserling, 1877

*Anahita pallida* (L.Koch, 1875) --- ?

Family Dictynidae O. P.-Cambridge, 1871

*Archaeodictyna anguiniceps* (Simon, 1899) --- New Valley, Siwa Oasis, Wadi Natron

*Archaeodictyna conducta* (O.P.-Cambridge, 1876) --- Alexandria, Cairo, Lower Egypt, Suez

*Devade indistincta* (O.P.-Cambridge, 1872) --- Mariout, Siwa Oasis, Suez

*Dictyna innocens* O.P.-Cambridge, 1872 --- Cairo

*Lathys humilis meridionalis* (Simon, 1874) --- Alexandria

*Nigma conducens* O.P.-Cambridge, 1876 --- Cairo, Lower Egypt, Elephantine, Philoe island (Aswan), Wadi-Halfa

Family Dysderidae C.L. Koch, 1837

*Dysdera crocota* C.L.Koch, 1839 --- Alexandria

*Dysdera erythrina* (Walckenaer, 1802) --- ?

*Dysdera lata* Wider, 1834 --- Alexandria, Cairo

*Dysdera lubrica* Simon, 1907 --- Alexandria, Cairo \*

*Dysdera pharaonis* Simon, 1907 --- Alexandria, Mariout \*

*Dysdera subnubila* Simon, 1907 --- Alexandria, Cairo \*

*Dysdera westringii* O.P.-Cambridge, 1872 --- Alexandria

Family Eresidae C.L. Koch, 1851

*Dorceus quadrispilotus* Simon, 1908 --- Alexandria, Mariout, west of El-Hammam \*

*Eresus pharaonis* Walckenaer, 1837 --- ? \*

*Eresus semicanus* Simon, 1908 --- Alexandria, Mariout, Suez

*Stegodyphus dufouri* (Audouin, 1825) --- Abu Galoum, Alexandria, Assiut, Aswan, Beni Suef, Cairo, Damietta, El-Baharia Oases, El-Fayum, El-Menoufeia, Giza, Ismailia, Luxor, Nile Barrage, Port Said, Qena, Sinai, Siwa Oasis, Sohag, Suez, Wadi El-Raiyan, Wadi Halfa, Wadi Natron

*Stegodyphus lineatus* (Latreille, 1817) --- Alexandria, Cairo, Damietta, El-Burullus, El-Shalateen and Bir El-Gahliya, El-Zaranik, Nabq, Ras El-Barr, Siwa Oasis, southern Sinai, Suez

*Stegodyphus manicatus* Simon, 1876 --- Cairo

Family Filistatidae Ausserer, 1867

*Filistata insidiatrix* (Forskål, 1775) --- Alexandria, Cairo, Lower Egypt, Siwa Oasis

*Filistata puta* O. P.-Cambridge, 1876 --- Alexandria

*Sahastata nigra* (Simon, 1897) --- Cairo, Luxor, Suez

Family Gnaphosidae Pocock, 1898

*Aphantaulax albini* (Audouin, 1825) --- ?

*Aphantaulax cinctus* (L.Koch, 1866) --- Alexandria

*Berinda ensiger* (O.P.-Cambridge, 1874) --- ?

*Berlandina plumalis* (O.P.-Cambridge, 1872) --- Alexandria, Cairo

*Berlandina venatrix* (O.P.-Cambridge, 1874) --- Alexandria, Aswan, Cairo, Luxor, Sinai, Siwa Oasis, Wadi Halfa

*Drassodes alexandrinus* (O.P.-Cambridge, 1874) --- Alexandria \*

*Drassodes unicolor* (O. P.-Cambridge, 1872) --- ?

*Haplodrassus dalmatensis* (L. Koch, 1866) --- Cairo

*Haplodrassus pugnans* (Simon, 1880) --- El-Arish

*Heser infumatus* (O.P.-Cambridge, 1872) --- Cairo

*Leptodrassus pupa* Dalmas, 1919 --- Suez \*

*Megamyrmaekion caudatum* Wider, 1834 --- ? \*

*Megamyrmaekion vulpinum* (O.P.-Cambridge, 1874) --- Aswan, Cairo

*Micaria ignea* (O. P.-Cambridge, 1872) --- northern and southern (?) Sinai

*Minosia pharao* Dalmas, 1921 --- Alexandria, Cairo \*

*Minosia simeonica* Levy, 1995 --- southern Sinai

*Minosiella mediocris* Dalmas, 1921 --- Cairo, El-Fayum, Siwa Oasis, Suez

*Minosiella pharia* Dalmas, 1921 --- Cairo

*Nomisio aussereri* (L.Koch, 1872) --- Alexandria, Cairo

*Nomisio recepta* (Pavesi, 1880) --- ?  
*Odontodassus mundulus* (O.P.-Cambridge, 1872) --- Cairo, southern Sinai  
*Poecilochroa antineae* Fage, 1929 --- ? \*  
*Poecilochroa pugnax* (O.P.-Cambridge, 1874) --- Alexandria, Cairo, Ismailia, Siwa Oasis, Suez  
*Poecilochroa senilis* (O.P.-Cambridge, 1872) --- Alexandria, El-Omayed  
*Pterotricha conspersa* (O.P.-Cambridge, 1872) --- Cairo, Helwan, Pyramids (Giza), El-Burullus, Ras Mohammed, Siwa Oasis  
*Pterotricha dalmasi* Fage, 1929 --- Nabq, Siwa Oasis  
*Pterotricha lentiginosa* (C.L.Koch, 1837) --- ?  
*Pterotricha lesserti* Dalmas, 1921 --- El-Arish, El-Zaranik, Rafah, Ras Sedr  
*Pterotricha linnaei* (Audouin, 1825) --- ?  
*Pterotricha procera* (O.P.-Cambridge, 1874) --- Alexandria, Cairo  
*Pterotricha schaefferi* (Audouin, 1825) --- Alexandria, Aswan, Cairo, El-Omayed, Suez, Wadi El-Raiyan, Wadi Halfa  
*Setaphis mollis* (O.P.-Cambridge, 1874) --- Alexandria  
*Setaphis subtilis* (Simon, 1897) --- Cairo, Ismailia, Nile Delta, Ras El-Barr, Shebin El-Kom, Sohag, southern Sinai, Wadi El-Raiyan  
*Synaphosus gracillimus* (O.P.-Cambridge, 1872) --- En Higiya (NE of Abu Zneima), Mount Serbal, Wadi Degla, Wadi Rishrash  
*Synaphosus intricatus* (Denis, 1947) --- Siwa Oasis  
*Synaphosus minimus* (Caporiacco, 1936) --- Dahab, Wadi Yah'med, El-Uwaynat  
*Synaphosus syntheticus* (Chamberlin, 1924) --- Cairo (Zenhum, Helwan), Sohag  
*Talanites fervidus* Simon, 1893 --- ?  
*Talanites ornatus* (O.P.-Cambridge, 1874) --- Alexandria \*  
*Trachyzelotes jaxartensis* (Kroneberg, 1875) --- Assiut, Luxor  
*Trachyzelotes lyonneti* (Audouin, 1825) --- ?  
*Urozelotes rusticus* (L.Koch, 1872) --- Marsa Matruh, Siwa Oasis  
*Zelotes fagei* Denis, 1955 --- ?  
*Zelotes laetus* (O.P.-Cambridge, 1872) --- Alexandria, Cairo, Lower Egypt  
*Zelotes listeri* (Audouin, 1825) --- southern Sinai \*  
*Zelotes nilicola* (O.P.-Cambridge, 1874) --- Alexandria, El-Tahrir Province, Nile Delta  
*Zelotes scrutatus* (O. P.-Cambridge, 1872) --- Alexandria, Siwa Oasis \*  
*Zelotes tenuis* (L.Koch, 1866) --- Alexandria

#### Family Hersiliidae Thorell, 1870

*Hersilia caudata* Savigny, 1825 --- Cairo to Aswan  
*Hersiliola simoni* (O.P.-Cambridge, 1872) --- Alexandria

#### Family Linyphiidae Blackwall, 1859

*Bathypantes extricatus* (O.P.-Cambridge, 1876) --- Alexandria, Cairo \*  
*Brachycerasphora parvicornis* (Simon, 1884) --- Alexandria \*  
*Erigone dentipalpis* (Wider, 1834) --- El-Aasher-Min-Ramadan City, Nile Delta  
*Gnathonarium dentatum* (Wider, 1834) --- Nile Delta  
*Gnathonarium dentatum orientale* (O.P.-Cambridge, 1872) --- ?  
*Meioneta rurestris* (C.L.Koch, 1836) --- Alexandria  
*Microctenonyx alexandrinus* (O.P.-Cambridge, 1872) --- Alexandria  
*Prinerigone vagans* (Savigny, 1825) --- Alexandria, Cairo, New Valley, Nile Delta, Wadi Natron

*Silometopus curtus* (Simon, 1881) --- ?

Family Liocranidae Simon, 1897

*Mesiotelus alexandrinus* (Simon, 1880) --- Edko \*

*Mesiotelus tenuissimus* (L.Koch, 1866) --- Alexandria, Ismailia, southern Sinai

Family Lycosidae Sundevall, 1833

*Allocosa deserticola* (Simon, 1898) --- Saqqarah \*

*Allocosa tarentulina* (Savigny, 1825) --- Alexandria

*Allocosa tremens* (O.P.-Cambridge, 1876) --- Alexandria

*Alopecosella pelusiaca* (Savigny, 1825) --- El-Manzalah

*Arctosa cinerea* (Fabricius, 1777) --- Siwa Oasis, southern Sinai, Upper Egypt, Wadi Natron

*Arctosa depuncta* (O.P.-Cambridge, 1876) --- Alexandria

*Arctosa leopardus* (Sundevall, 1832) --- Alexandria

*Arctosa quadripunctata* (Lucas, 1846) --- Siwa Oasis

*Aulonia albimana* (Walckenaer, 1805) --- ? \*

*Crocodilosa virulenta* (O.P.-Cambridge, 1876) --- Cairo \*

*Evippa arenaria* (Savigny, 1825) --- Rosetta

*Evippa praelongipes* (O.P.-Cambridge, 1870) --- southern Sinai

*Evippa unguolata* (O.P.-Cambridge, 1876) --- Aswan, Luxor, Siwa Oasis, Upper Egypt, Wadi El-Raiyan

*Evippomma simoni* Alderweireldt, 1992 --- Wadi Halfa

*Geolycosa urbana* (O.P.-Cambridge, 1876) --- Alexandria, Siwa Oasis

*Hippasa innesi* Simon, 1889 --- Cairo, Suez \*

*Hippasa partita* (O.P.-Cambridge, 1876) --- Alexandria

*Hippasa sinai* Alderweireldt & Jocqué, 2005 --- Sinai

*Hogna alexandria* Roewer, 1960 --- Alexandria \*

*Hogna ferox* (Lucas, 1838) --- Nile Delta, Siwa Oasis, Wadi Natron

*Hogna peregrina* (Savigny, 1825) --- Rosetta \*

*Hogna radiata* (Latreille, 1817) --- Cairo

*Hogna sinaia* Roewer, 1959 --- Sinai

*Hogna truculenta* (O. P.-Cambridge, 1876) --- Alexandria

*Hyaenosa effera* (O.P.-Cambridge, 1872) --- Alexandria, Cairo

*Lycosa cingara* (C.L.Koch, 1847) --- ? \*

*Lycosa cretacea* Simon, 1898 --- Saqqarah

*Lycosa nilotica* Savigny, 1825 --- Alexandria, Aswan, Cairo \*

*Lycosa tarantula* (Linnaeus, 1758) --- southern Sinai

*Megarctosa argentata* (Denis, 1947) --- Siwa Oasis \*

*Ocyale atalanta* Savigny, 1825 --- Wadi Natron

*Ocyale pelliona* (Savigny, 1825) --- Rosetta

*Orinocosa priesneri* Roewer, 1959 --- Djebel Bokas (?) \*

*Orthocosa ambigua* (Denis, 1947) --- Siwa Oasis \*

*Pardosa iniqua* (O.P.-Cambridge, 1876) --- Alexandria \*

*Pardosa injucunda* (O.P.-Cambridge, 1876) --- Alexandria, Cairo, Siwa Oasis

*Pardosa inopina* (O.P.-Cambridge, 1876) --- Alexandria, Wadi Natron

*Pardosa inquieta* (O.P.-Cambridge, 1876) --- Alexandria \*

*Pardosa naevia* (L. Koch, 1875) --- ? \*

*Pardosa observans* (O.P.-Cambridge, 1876) --- Alexandria \*



*Pardosa serena* (L.Koch, 1875) --- Cairo \*

*Pirata proximus* O.P.-Cambridge, 1876 --- Alexandria \*

*Trochosa annulipes* L.Koch, 1875 --- Cairo

*Wadicosa fidelis* (O.P.-Cambridge, 1872) --- Alexandria, Aswan, Cairo, Siwa Oasis, Suez, Wadi Natron

Family Mimetidae Simon, 1881

*Mimetus monticola* (Blackwall, 1870) --- Cairo

Family Miturgidae Simon, 1885

*Cheiracanthium annulipes* O.P.-Cambridge, 1872 --- Cairo, Philoe island (Aswan), Wadi Natron

*Cheiracanthium canariense* Wunderlich, 1987 --- El-Burullus, El-Zaranik

*Cheiracanthium equestre* O.P.-Cambridge, 1874 --- Cairo, Siwa Oasis

*Cheiracanthium isiacum* O.P.-Cambridge, 1874 --- Cairo, Nile Delta, Siwa Oasis, Sohag, Wadi Natron

*Cheiracanthium jovium* Denis, 1947 --- Siwa Oasis

*Cheiracanthium mildei* L.Koch, 1864 --- southern Sinai

*Cheiracanthium pelagicum* (C.L.Koch, 1837) --- Beni Suef, Qalyubia, Rafah

*Cheiracanthium siwi* El-Hennawy, 2001 --- Siwa Oasis \*

*Cheiramiona dubia* (O.P.-Cambridge, 1874) --- Alexandria \*

Family Oecobiidae Blackwall, 1862

*Oecobius amboseli* Shear & Benoit, 1974 --- Cairo

*Oecobius maculatus* Simon, 1870 --- Giza

*Oecobius navus* Blackwall, 1859 --- Alexandria, Ismailia, Upper Egypt

*Oecobius putus* O.P.-Cambridge, 1876 --- Cairo, Giza, Ismailia, Upper Egypt

*Oecobius templi* O.P.-Cambridge, 1876 --- Cairo, Upper Egypt, Abu Galoum (?)

*Uroctea durandi* (Latreille, 1809) --- ?

*Uroctea limbata* (C.L.Koch, 1843) --- Alexandria, Abu Galoum, Nabq, Ras Mohammed

Family Oonopidae Simon, 1890

*Dysderina scutata* (O.P.-Cambridge, 1876) --- Alexandria, Cairo \*

*Gamasomorpha arabica* Simon, 1893 --- Ain-Musa \*

*Gamasomorpha margaritae* Denis, 1947 --- Siwa Oasis \*

*Opopaea punctata* (O.P.-Cambridge, 1872) --- Ain-Musa, Alexandria

*Sulsula pauper* (O.P.-Cambridge, 1876) --- Alexandria

Family Oxyopidae Thorell, 1870

*Oxyopes heterophthalmus* (Latreille, 1804) --- Alexandria, Cairo, Sinai

*Oxyopes lineatus* Latreille, 1806 --- ?

*Oxyopes sinaiticus* Levy, 1999 --- Sinai ?

*Peucetia arabica* Simon, 1882 --- Cairo, Abu Galoum, Nabq, Ras Mohammed, St. Catherine, Siwa Oasis, Suez

*Peucetia virescens* (O.P.-Cambridge, 1872) --- Dakhla Oases

*Peucetia viridis* (Blackwall, 1858) --- Dahshur (Giza), Sinai

Family Palpimanidae Thorell, 1870

*Palpimanus aegyptiacus* Kulczyński, 1909 --- ? \*

*Palpimanus gibbulus* Dufour, 1820 --- Alexandria, Cairo to Luxor, Nubia

*Palpimanus uncatatus* Kulczyński, 1909 --- ? \*

Family Philodromidae Thorell, 1870

*Philodromus bigibbus* (O.P.-Cambridge, 1876) --- Alexandria, Aswan

*Philodromus cinereus* O.P.-Cambridge, 1876 --- Cairo \*

*Philodromus clercki* Audouin, 1825 --- ? \*

*Philodromus denisi* Levy, 1977 --- Siwa Oasis \*

*Philodromus glaucinus* Simon, 1870 --- Ismailia, Siwa Oasis, Upper Egypt

*Philodromus lepidus* Blackwall, 1870 --- Aswan, Cairo, Wadi Natron

*Philodromus lugens* (O.P.-Cambridge, 1876) --- Alexandria \*

*Philodromus omer-cooperi* Denis, 1947 --- Siwa Oasis \*

*Philodromus sinaiticus* Levy, 1977 --- Ras Mohammed \*

*Philodromus venustus* O.P.-Cambridge, 1876 --- Cairo to Manfalut \*

*Thanatus albini* (Audouin, 1825) --- Cairo, El-Tahrir Province, New Valley, Nile Delta, Siwa Oasis, Sohag

*Thanatus fabricii* (Audouin, 1825) --- Alexandria, Siwa Oasis

*Thanatus flavescens* O.P.-Cambridge, 1876 --- Cairo \*

*Thanatus flavus* O.P.-Cambridge, 1876 --- Alexandria \*

*Thanatus formicinus* (Clerck, 1757) --- ?

*Thanatus fornicatus* Simon, 1897 --- Sinai

*Thanatus lesserti* (Roewer, 1951) --- Cairo

*Tibellus vossioni* Simon, 1884 --- Siwa Oasis

Family Pholcidae C.L. Koch, 1851

*Artema atlanta* Walckenaer, 1837 --- Cairo, Siwa Oasis, Sohag, Wadi Natron

*Crossopriza semicaudata* (O.P.-Cambridge, 1876) --- Cairo to Luxor

*Holocnemus pluchei* (Scopoli, 1763) --- Alexandria, Cairo, Nabq, Wadi Natron

*Micropholcus fauroti* (Simon, 1887) --- ?

*Pholcus phalangoides* (Fuesslin, 1775) --- Alexandria

Family Pisauridae Simon, 1890

*Dolomedes hyppomene* Savigny, 1825 --- Damietta \*

*Nilus curtus* O.P.-Cambridge, 1876 --- Alexandria \*

*Pisaura mirabilis* (Clerck, 1757) --- ?

*Rothus atlanticus* Simon, 1898 --- Siwa Oasis

Family Prodidomidae Simon, 1884

*Prodidomus amaranthinus* (Lucas, 1846) --- Alexandria, Cairo

*Zimirina vastitatis* Cooke, 1964 --- El-Sallum

*Zimiris* sp. --- Heliopolis-Cairo (inside a house) [Unpublished record]

Family Salticidae Blackwall, 1841

*Aelurillus catherinae* Prószyński, 2000 --- St. Catherine \*

*Aelurillus conveniens* (O.P.-Cambridge, 1872) --- Siwa Oasis, Mid Sinai

*Aelurillus dorthesi* (Audouin, 1825) --- Cairo, Wadi Natron \*

*Aelurillus hirtipes* Denis, 1960 --- Watia Pass (Mid Sinai)

*Aelurillus luctuosus* (Lucas, 1846) --- Lower Egypt

*Aelurillus monardi* (Lucas, 1846) --- Cairo, Lower Egypt

*Aelurillus sinaicus* Prószyński, 2000 --- north of Mid Sinai

*Ballus piger* O.P.-Cambridge, 1876 --- Upper Egypt \*

*Bianor albobimaculatus* (Lucas, 1846) --- Alexandria, Cairo, Siwa Oasis, Suez  
*Carrhotus occidentalis* (Denis, 1947) --- Siwa Oasis \*  
*Chalcoscirtus catherinae* Prószyński, 2000 --- St. Catherine, near Taba  
*Cosmophasis nigrocyanea* (Simon, 1885) --- Siwa Oasis  
*Euophrys catherinae* Prószyński, 2000 --- St. Catherine, southern Sinai \*  
*Euophrys granulata* Denis, 1947 --- Siwa Oasis \*  
*Festucula vermiformis* Simon, 1901 --- Alexandria, Suez \*  
*Hasarius adansonii* (Audouin, 1825) --- Alexandria, Cairo, Ras El-Barr  
*Heliophanillus fulgens* (O.P.-Cambridge, 1872) --- Alexandria, Cairo, Siwa Oasis, Upper Egypt  
*Heliophanillus lucipeta* (Simon, 1890) --- Alexandria, Suez  
*Heliophanus cupreus* (Walckenaer, 1802) --- ?  
*Heliophanus decoratus* L.Koch, 1875 --- Alexandria, Cairo, El-Zaranik, Siwa Oasis, Suez, Wadi Natron  
*Heliophanus edentulus* Simon, 1871 --- Alexandria  
*Heliophanus glaucus* Bösenberg & Lenz, 1894 --- Alexandria, Siwa Oasis  
*Hyllus plexippoides* Simon, 1906 --- ?  
*Langona alfensis* Hęciak & Prószyński, 1983 --- Wadi Halfa  
*Langona mallezi* (Denis, 1947) --- Siwa Oasis \*  
*Langona redii* (Audouin, 1825) --- Alexandria, Cairo  
*Mendoza canestrinii* (Ninni, 1868) --- Alexandria  
*Menemerus animatus* O.P.-Cambridge, 1876 --- Alexandria, Cairo, El-Omayed, El-Zaranik, Ras El-Barr, Siwa Oasis, Upper Egypt, Wadi Natron  
*Menemerus gesneri* (Audouin, 1825) --- ?  
*Menemerus heydeni* Simon, 1868 --- Cairo, Upper Egypt  
*Menemerus hunteri* (Audouin, 1825) --- ?  
*Menemerus illigeri* (Audouin, 1825) --- Cairo  
*Menemerus semilimbatus* (Hahn, 1829) --- Cairo  
*Menemerus soldani* (Audouin, 1825) --- Alexandria, Siwa Oasis  
*Modunda staintoni* (O.P.-Cambridge, 1872) --- Upper Egypt, Suez  
*Mogrus bonneti* (Audouin, 1825) --- Alexandria, Siwa Oasis, Upper Egypt, Wadi El-Raiyan, Wadi Natron  
*Mogrus canescens* (C.L.Koch, 1846) --- ?  
*Mogrus fulvovittatus* Simon, 1882 --- El-Burullus, El-Omayed, El-Zaranik, Nabq, Ras El-Barr  
*Mogrus mirabilis* Wesolowska & van Harten, 1994 --- Wadi Halfa  
*Mogrus sinaicus* Prószyński, 2000 --- Ras Mohammed, St. Catherine  
*Myrmarachne kiboschensis* Lessert, 1925 --- Cairo  
*Myrmarachne tristis* (Simon, 1882) --- El-Zaranik, Nabq  
*Natta horizontalis* Karsch, 1879 --- ?  
*Neaetha aegyptiaca* Denis, 1947 --- Siwa Oasis \*  
*Neaetha cerussata* (Simon, 1868) --- ?  
*Neaetha oculata* (O.P.-Cambridge, 1876) --- Upper Egypt  
*Pachypoessa plebeja* (L.Koch, 1875) --- Cairo  
*Paranaetha diversa* Denis, 1947 --- Siwa Oasis \*  
*Pellenes frischeri* (Audouin, 1825) --- ? \*  
*Philaeus chrysops* (Poda, 1761) --- southern Sinai  
*Phlegra flavipes* Denis, 1947 --- Siwa Oasis \*

*Phlegra memorialis* (O.P.-Cambridge, 1876) --- Siwa Oasis, Upper Egypt \*  
*Phlegra pori* Prószyński, 1998 --- Mt. Catherine (southern Sinai)  
*Phlegra proxima* Denis, 1947 --- Siwa Oasis \*  
*Plexippoides flavescens* (O.P.-Cambridge, 1872) --- St. Catherine  
*Plexippus paykulli* (Audouin, 1825) --- Abu Galoum, Alexandria, Cairo, El-Shalateen, Bir El-Gahliya, El-Zaranik, southern Sinai  
*Pseudicius spiniger* (O.P.-Cambridge, 1872) --- Aswan, Cairo, Upper Egypt  
*Pseudicius tamaricis* Simon, 1885 --- Siwa Oasis, Wadi Natron  
*Rafalus christophori* Prószyński, 1999 --- St. Catherine  
*Rafalus feliksi* Prószyński, 1999 --- north west Wadi Esla \*  
*Salticus druryi* Audouin, 1825 --- ?  
*Salticus mendicus* O.P.-Cambridge, 1876 --- Alexandria to Aswan  
*Salticus mouffeti* Audouin, 1825 --- Alexandria  
*Salticus paludivagus* Lucas, 1846 --- Alexandria  
*Salticus propinquus* Lucas, 1846 --- Alexandria, Kafr El-Sheikh  
*Stenaelurillus wernerii* Simon, 1906 --- ?  
*Synageles dalmaticus* (Keyserling, 1863) --- Alexandria, Cairo  
*Synageles repudiatus* (O.P.-Cambridge, 1876) --- Alexandria, Siwa Oasis \*  
*Thyene imperialis* (Rossi, 1846) --- Aswan, Cairo, El-Tahrir Province, Nabq, New Valley, Sharm El-Sheikh, Siwa Oasis, Upper Egypt  
*Thyenula ammonis* Denis, 1947 --- Siwa Oasis \*  
*Yllenus saliens* O.P.-Cambridge, 1876 --- Alexandria, Cairo, El-Uwaynat, Suez, Upper Egypt  
*Yllenus tschoni* (Caporiacco, 1936) --- ?

#### Family Scytodidae Blackwall, 1864

*Scytodes bertheloti* Lucas, 1838 --- Wadi Natron  
*Scytodes immaculata* L.Koch, 1875 --- Alexandria, Cairo, El-Fayum, Upper Egypt, Wadi Halfa \*  
*Scytodes obelisci* Denis, 1947 --- Luxor \*  
*Scytodes thoracica* (Latreille, 1802) --- Cairo, Siwa Oasis  
*Scytodes velutina* Heineken & Lowe, 1836 --- Cairo, Siwa Oasis, Wadi Natron

#### Family Segestriidae Simon, 1893

*Ariadna insidiatrix* Savigny, 1825 --- Alexandria, Cairo  
*Segestria florentina* (Rossi, 1790) --- Alexandria, Lower Egypt, south west Sinai

#### Family Selenopidae Simon, 1897

*Selenops radiatus* Latreille, 1819 --- Wadi Natron, Nile Valley

#### Family Sicariidae Keyserling, 1880

*Loxosceles rufescens* (Dufour, 1820) --- Alexandria, Cairo, Siwa Oasis

#### Family Sparassidae Bertkau, 1872

*Cebrennus aethiopicus* Simon, 1880 --- Nubia  
*Cebrennus castaneitarsis* Simon, 1880 --- Sinai  
*Cebrennus concolor* (Denis, 1947) --- Siwa Oasis \*  
*Cerbalus pellitus* Kritscher, 1960 --- Fayed \*  
*Cerbalus psammodes* Levy, 1989 --- El-Zaranik  
*Cerbalus pulcherrimus* (Simon, 1880) --- Aswan, Wadi Natron

*Eusparassus bicorniger* (Pocock, 1898) --- ?  
*Eusparassus dufouri* Simon, 1932 --- ?  
*Eusparassus oraniensis* (Lucas, 1846) --- Siwa Oasis  
*Eusparassus walckenaeri* (Audouin, 1825) --- Cairo, El-Shalateen, Bir El-Gahliya, Siwa Oasis, southern Sinai, Upper Egypt, Wadi Natron  
*Gnathopalystes crucifer* (Simon, 1880) --- (Port Said?) ?  
*Heteropoda variegata* (Simon, 1874) --- ?  
*Olios suavis* (O.P.-Cambridge, 1876) --- Siwa Oasis, near Gebel Silsilis (Upper Egypt)

Family Synaphridae Wunderlich, 1986  
*Synaphris letourneuxi* (Simon, 1884) --- ? \*

Family Tetragnathidae Menge, 1866  
*Dyschiriognatha argyrostilba* (O.P.-Cambridge, 1876) --- Alexandria \*  
*Tetragnatha chrysochlora* (Audouin, 1825) --- ?  
*Tetragnatha flava* (Savigny, 1825) --- Alexandria, Rosetta \*  
*Tetragnatha isidis* (Simon, 1880) --- Alexandria  
*Tetragnatha nitens* (Savigny, 1825) --- Alexandria, Cairo, Manzalah, Rosetta, Siwa Oasis, Wadi El-Raiyan, Wadi Natron

Family Theridiidae Sundevall, 1833  
*Argyrodes argyrodes* (Walckenaer, 1842) --- Siwa Oasis  
*Crustulina conspicua* (O.P.-Cambridge, 1872) --- Giza  
*Enoplognatha deserta* Levy & Amitai, 1981 --- St. Catherine  
*Enoplognatha gemina* Bosmans & Van Keer, 1999 --- Alexandria, Cairo  
*Euryopsis albomaculata* Denis, 1951 --- ? \*  
*Euryopsis campestrata* Simon, 1907 --- Cairo \*  
*Euryopsis episinoides* (Walckenaer, 1847) --- Alexandria, Giza, Ismailia  
*Euryopsis quinqueguttata* Thorell, 1875 --- Siwa Oasis  
*Kochiura aulica* (C.L.Koch, 1838) --- Alexandria, Nile Delta, Siwa Oasis, Wadi Natron  
*Latrodectus pallidus* O.P.-Cambridge, 1872 --- Alexandria, El-Zaranik, Nabq  
*Latrodectus tredecimguttatus* (Rossi, 1790) --- Alexandria, El-Tahrir Province, Salahyeh, Mid Sinai, Nabq  
*Nesticodes rufipes* (Lucas, 1846) --- Cairo  
*Paidiscura dromedaria* (Simon, 1880) --- Ismailia, El-Zaranik, Nabq  
*Steatoda ephippiata* (Thorell, 1875) --- El-Omayed, El-Zaranik, Mid Sinai  
*Steatoda erigoniformis* (O.P.-Cambridge, 1872) --- Alexandria, Nile Delta  
*Steatoda latifasciata* (Simon, 1873) --- Mid Sinai, St. Catherine  
*Steatoda paykulliana* (Walckenaer, 1805) --- Alexandria, El-Burullus, El-Zaranik, southern Sinai  
*Steatoda triangulosa* (Walckenaer, 1802) --- Cairo, Wadi Natron, El-Zaranik  
*Steatoda venator* (Savigny, 1825) --- Alexandria \*  
*Theridion melanostictum* O.P.-Cambridge, 1876 --- Alexandria, Nile Delta, El-Zaranik  
*Theridion musivum* Simon, 1873 --- Mid Sinai  
*Theridion nigrovariegatum* Simon, 1873 --- Alexandria, Ismailia, Siwa Oasis, Suez  
*Theridion spinitarse* O.P.-Cambridge, 1876 --- Cairo, Luxor  
*Theridion varians* Hahn, 1833--- Alexandria

Family Thomisidae Sundevall, 1833

*Firmicus dewitzi* Simon, 1899 --- Wadi Natron

*Heriaeus buffoni* (Audouin, 1825) --- Ras Mohammed

*Misumena atrocincta* Costa, 1875 --- ? \*

*Ozyptila judaea* Levy, 1975 --- Sinai (near Taba)

*Ozyptila subclavata* (O.P.-Cambridge, 1876) --- Alexandria

*Pistius truncatus* (Pallas, 1772) --- ?

*Runcinia grammica* (C.L.Koch, 1837) --- Alexandria, El-Arish, El-Bawitti, Fatira, Kom Osheem

*Synema candicans* (O.P.-Cambridge, 1876) --- Alexandria \*

*Synema diana* (Audouin, 1825) --- Cairo to Luxor, Fatira, Kom Osheem, Nabq, Ras El-Barr, Siwa Oasis, Wadi Esla, Wadi Natron

*Synema globosum* (Fabricius, 1775) --- ?

*Synema valentinieri* Dahl, 1907 --- Upper Egypt \*

*Thomisus bidentatus* Kulczyński, 1901 --- southern Sinai

*Thomisus onustus* Walckenaer, 1805 --- El-Zaranik, Kom Osheem, Ras El-Barr, Siwa Oasis, southern Sinai, Wadi El-Raiyan

*Thomisus spinifer* O.P.-Cambridge, 1872 --- Aswan, Cairo to Luxor, El-Arish, El-Bawitti, Fatira, Nile Delta, Siwa Oasis, Wadi Natron

*Tmarus piochardi* (Simon, 1866) --- Siwa Oasis

*Xysticus bliteus* (Simon, 1875) --- Alexandria, Cairo

*Xysticus clercki* (Audouin, 1825) --- ?

*Xysticus cristatus* (Clerck, 1757) --- Alexandria

*Xysticus ferus* O.P.-Cambridge, 1876 --- Alexandria, southern Sinai

*Xysticus lalandei* (Audouin, 1825) --- Cairo, southwestern Sinai \*

*Xysticus peccans* O.P.-Cambridge, 1876 --- ? \*

*Xysticus promiscuus* O. P.-Cambridge, 1876 --- Alexandria

*Xysticus sabulosus* (Hahn, 1832) --- ?

*Xysticus sinaiticus* Levy, 1999 --- ?

*Xysticus tristrami* (O.P.-Cambridge, 1872) --- Cairo (Giza), Rafah, St. Catherine

Family Titanoecidae Lehtinen, 1967

*Nurscia albomaculata* (Lucas, 1846) --- Alexandria, Cairo (Giza)

*Titanoeca tristis* L.Koch, 1872 --- ?

Family Uloboridae Thorell, 1869

*Uloborus plumipes* Lucas, 1846 --- Cairo to Assiut, Nile Valley, near Red Sea, Siwa Oasis

*Uloborus walckenaerius* Latreille, 1806 --- El-Zaranik, Siwa Oasis

Family Zodariidae Thorell, 1881

*Lachesana perversa* (Savigny, 1825) --- Cairo, El-Zaranik

*Palaestina eremica* Levy, 1992 --- St. Catherine

*Ranops expers* (O.P.-Cambridge, 1876) --- Alexandria, St. Catherine

*Trygetus riyadhensis* Ono & Jocqué, 1986 --- St. Catherine

*Trygetus sexoculatus* (O.P.-Cambridge, 1872) --- Suez, west of southern Sinai

*Zodarion cyrenaicum* Denis, 1935 --- ?

*Zodarion nitidum* (Savigny, 1825) --- Alexandria, Cairo, northern Sinai

*Zodarion pileolonotatum* Denis, 1935 --- Siwa Oasis

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